

PATENT APPLICATION

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES**

In re application of

Docket No: Q64544

Dominique HAMOIR

Appln. No.: 09/856,362

Group Art Unit: 2633

Confirmation No.: 6876

Examiner: Leslie PASCAL

Filed: May 22, 2001

For: AMPLIFICATION FOR VERY BROAD BAND OPTICAL FIBER TRANSMISSION
SYSTEMS

RESPONSE TO NOTIFICATION OF NON-COMPLIANT APPEAL BRIEF

MAIL STOP APPEAL BRIEF - PATENTS

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Responsive to the Notice mailed January 2, 2008, attached hereto is a corrected Claims Appendix accurately setting forth the claims on appeal. None of the arguments made by either appellant or the examiner in this appeal proceeding were based on or referred to the erroneous claim language, so no further corrections to the briefs are believed necessary.

Appl. No. 09/856,362
Corrected Claims Appendix for Appeal

Respectfully submitted,

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: March 3, 2008

/DJCushing/
David J. Cushing
Registration No. 28,703

CLAIMS APPENDIX

CLAIMS 1-8 AND 10-25 ON APPEAL:

1. A very broad band wavelength division multiplexed transmission system comprising optical media for carrying signals subject to a Raman effect, said system further comprising means for compensating energy transfers between channels caused by the Raman effect over the very broad band.
2. The system of claim 1, characterized by a bandwidth greater than 20 THz.
3. The system of claim 1, characterized by a bandwidth greater than 30 THz.
4. The system of claim 1, characterized in that said band extends beyond 1620 nm.
5. The system of claim 1, characterized in that the compensation means compensate depletion in channels over the beginning of the band.
6. The system of claim 5, characterized in that the compensation means compensate depletion in the channels at the beginning of the band over a bandwidth lying in the range 13 THz to 21 THz.
7. The system of claim 1, characterized in that the compensation means compensate enrichment of channels over the end of the band.
8. The system of claim 7, characterized in that the compensation means compensate enrichment of the channels over the end of the band over a bandwidth lying in the range 13 THz to 21 THz.
9. (Cancelled).
10. The system of claim 7, characterized in that the enrichment of channels over the end of the band is compensated for by the system using lower powers for channels near the end of the band than for channels elsewhere in the band.

11. A very broad band optical amplification system comprising optical media for carrying signals subject to a Raman effect, said system further comprising compensation means for compensating energy transfers between channels caused by the Raman effect over the very broad band.

12. The system of claim 11, characterized by a bandwidth greater than 20 THz.

13. The system of claim 11, characterized by a bandwidth greater than 30 THz.

14. The system of claim 11, characterized in that the compensation means compensate depletion in the channels over the beginning of the band.

15. The system of claim 14, characterized in that the compensation means compensate depletion in the channels over the beginning of the band over a bandwidth lying in the range 13 THz to 21 THz.

16. The system of claim 14, characterized in that it comprises distributed amplification means over the beginning of the band.

17. The system of claim 16, characterized in that the distributed amplification means comprise Raman amplification means.

18. The system of claim 16, characterized in that the distributed amplification means comprise rare earth amplification means.

19. The system of claim 11, characterized in that the compensation means compensate enrichment of the channels over the end of the band.

20. The system of claim 19, characterized in that the compensation means compensate enrichment of the channels over the end of the band over a bandwidth lying in the range 13 THz to 21 THz.

21. The system of claim 1, characterized in that said band extends beyond 1650 nm.

22. The system of claim 1, characterized in that said band extends beyond 1670 nm.

23. The system of claim 7, characterized in that the compensation means comprise at least one attenuator.

24. A very broad band wavelength division multiplexed transmission system comprising an optical fiber for carrying signals subject to a Raman effect, wherein the optical fiber further provides linear losses to compensate enrichment of channels over the end of the very broad band.

25. The system of claim 19, wherein the compensation means attenuate the enrichment of the channels over the end of the very broad band in a distributed way.